Operations Report

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CDF Weekly Meeting

Recovery from Feeder 35 Fault

- Last Thursday at 5:30am a fault on feeder 35 dropped power to Tevatron and CDF.
  - All checks indicate that the abort was clean.
- Access on Thursday: BMU HV, L00 fuses, Si fib, Roman pot
- CDF was back up and taking cosmics late Thursday
  - Great work everyone!
- Tevatron was cooled down on Friday, but various problems held off the next shot until Sunday.
  - About half the pbar stack was lost when switching from cooling back to stacking.
  - Poor pbar efficiency on the shot yielded low initial luminosity.

Solenoid

- On Sunday, problems arose with valves that allow us to pump the “Watt can”.
  - Roser &Co. made an access early Mon. to investigate.
  - Temporary kludge: we can pump down with a roughing pump, but only with the solenoid off. Ramp down, pump, ramp up = ~2 hrs.
- Replacement parts are ready; 2 hr. access requested at the end of this store for replacement.

Trigger Tables

- Trigger table tests:
  - SVT dzin requirement -> greatly suppresses fakes at high luminosity, nearly 100% efficient for signal. Should allow standard table to work at 8e31.
  - New phi-gap muons, diffractive, and tau triggers.
  - Test of the mechanism for fractional prescaling.

This Week's Stores

Date	Store	Hrs	Inst Lum (initial)	Deliv (nb^{-1})	Lum to tape (ε)	Si Phys Lum (ε)	Comment
5/30	3547	13	26.0e30	761	609 (80%)	566 (74%)	
5/31	3549	14	54.5e30	1644	1455 (89%)	0	**Solenoid, Si, COT, TOF off**
6/1	3552	32	69.1e30	3189	2123 (67%)	2091(66%)	**Watt can, lostp, a.g., TeV studies**
6/2	3554		74.1e30				**Ongoing**
Total				5.6 pb^{-1}	4.2 pb^{-1} (75%)	2.7 pb^{-1} (48%)	

Summary

- CDF recovered well from the power failure.
- Problem with solenoid arose at an unfortunate time. Repair is anticipated at next opportunity.
- Tevatron is running well. Store 3554 began with second highest luminosity yet achieved.
- With COT running full HV, the trigger/DAQ is okay.